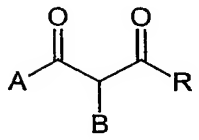
CLAIMS

1. Derivatives of 1,3-diones having general formula (I):



(I)

wherein:

- A represents:

an aryl group optionally substituted by one or more substituents selected from halogen, NO_2, CN, CHO, OH, linear or branched C_1-C_6 alkyl, linear or branched C_1-C_6 haloalkyl, linear or branched C_1-C_6 alkoxyl, linear or branched C_1-C_6 haloalkoxyl, C_1-C_6 cyanoalkyl, C_2-C_6 alkoxyalkyl, C_2-C_6 alkylthioalkyl, C_2-C_6 alkylsulfinylalkyl, C_2-C_6 alkylsulfonylalkyl, C_2-C_6 haloalkoxyalkyl, C_2-C_6 haloalkylthioalkyl, C_2-C_6 haloalkylsulfinylalkyl, C_2-C_6 haloalkylsulfonylalkyl, C_2-C_6 alkoxyalkoxyl or C_2-C_6 haloalkoxyalkoxyl optionally substituted with a group selected from C_1-C_4 alkoxyl or C_1-C_4 haloalkoxyl, C_2-C_6 alkylthioalkoxyl, C_2-C_6 haloalkylthioalkoxyl, C_3-C_{12} dialkoxyalkyl, C_3-C_{12} dialkylthioalkyl, C_3-C_{12} dialkylthioalkoxyl, C_3-C_{12} dialkoxyalkoxyl, C_2-C_6

haloalkoxyhaloalkoxyl, C_3-C_{10} alkoxyalkoxyalkyl, C_2-C_6 alkenyl, C_2-C_6 haloalkenyl, C_2-C_6 alkenyloxy, C_2-C_6 haloalkenyloxy, C_3-C_8 alkenyloxyalkoxyl, C_3-C_8 haloalkenyloxyalkoxyl, C_2-C_6 alkynyl, C_2-C_6 haloalkynyl, C_2-C_6 alkynyloxy, C_2-C_6 haloalkynyloxy, C_3-C_8 alkynyloxyalkoxyl, C_3-C_8 haloalkynyloxyalkoxyl, C_3-C_{12} acylaminoalkoxy, C_2-C_8 alkoxyiminoalkyl, C_2-C_8 haloalkoxyiminoalkyl, C_3-C_8 alkenyloxyiminoalkyl, C_3-C_8 haloalkenyloxyiminoalkyl, C_3-C_8 alkynyloxyiminoalkyl, C_3-C_8 haloalkynyloxyiminoalkyl, C_5-C_{10} alkoxyalkynyloxyl, C_6-C_{12} cycloalkylideneiminooxyalkyl, C_6-C_{12} dialkylideneiminooxyalkyl, $-S(O)_mR_1$, $-OS(O)_tR_1$, $-SO_2NR_2R_3$, $-CO_2R_4$, $-COR_5$, $-CONR_6R_7$, $-CSNR_8R_9$, $-NR_{10}R_{11}$, $-NR_{12}COR_{13}$, $-NR_{14}CO_2R_{15}$, $-NR_{16}CONR_{17}R_{18}$, $-PO(R_{19})_2$, $-Q$, $-ZQ_1$, $-(CR_{20}R_{21})_pQ_2$, $-Z(CR_{22}R_{23})_pQ_3$, $-(CR_{24}R_{25})_pZQ_4$, $-(CR_{26}R_{27})_pZ(CR_{28}R_{29})_qQ_5$, $-(CR_{30}R_{31})_pZ(CR_{32}R_{33})_qZ_1Q_6$, $-Z_2(CR_{34}R_{35})_p(C=Y)T$, $-Z_3(CR_{36}R_{37})_v(CR_{38}R_{39}=CR_{40}R_{41})(C=Y)T$;

or it represents a heterocyclic group selected from pyridyl, pyrimidyl, quinolinyl, pyrazolyl, thiazolyl, oxazolyl, thienyl, furyl, benzothienyl, dihydrobenzothienyl, benzofuranyl, dihydrobenzofuranyl, benzoxazolyl, benzoxazolonyl, benzothiazolyl, benzothiazolonyl, benzoimidazolyl,

benzoimidazolonyl, benzotriazolyl, chromanonyl, chromanyl, thiochromanonyl, thiochromanyl, 3a,4-dihydro-3*H*-indeno[1,2-*c*]isoxazolyl, 3a,4-dihydro-3*H*-chromeno[4,3-*c*]isoxazolyl, 5,5-dioxide-3a,4-dihydro-3*H*-thiochromeno[4,3-*c*]isoxazolyl, 2,3,3a,4-tetrahydrochromeno[4,3-*c*]pyrazolyl, 6,6-dioxide-2,3-dihydro-5*H*-[1,4]dithiino[2,3-*c*]thiochromenyl, 5,5-dioxide-2,3,3a,4-tetrahydrothiochromeno[4,3-*c*]pyrazolyl, 1',1'-dioxide-2',3'-dihydrospiro[1,3-dioxolano-2,4'-thiochromen]-yl, 1,1,4,4-tetraoxide-2,3-dihydro-1,4-benzodithiin-6-yl, 4,4-dioxide-2,3-dihydro-1,4-benzoxathiin-7-yl, 1,1-dioxide-3-oxo-2,3-dihydro-1,2-benzoisothiazol-5-yl, 4-(alkoxyimino)-1,1-dioxide-3,4-dihydro-2*H*-thiochromen-6-yl, 1,1-dioxide-4-oxo-3,4-dihydro-2*H*-thiochromen-6-yl, 2,3-dihydro-1,4-benzoxathiin-7-yl,

with said groups optionally substituted by one or more substituents selected from halogen, NO_2, CN, CHO, OH, linear or branched C_1-C_6 alkyl, linear or branched C_1-C_6 haloalkyl, linear or branched C_1-C_6 alkoxyl, linear or branched C_1-C_6 haloalkoxyl, C_1-C_6 cyanoalkyl, C_2-C_6 alkoxyalkyl, C_2-C_6 alkylthioalkyl, C_2-C_6 alkylsulfinylalkyl, C_2-C_6 alkylsulfonylalkyl, C_2-C_6 haloalkoxyalkyl, C_2-C_6 haloalkylthioalkyl, C_2-C_6 haloalkylsulfinylalkyl, C_2-C_6 haloalkylsulfonylalkyl,

C_2-C_6 alkoxyalkoxyl or C_2-C_6 haloalkoxyalkoxyl optionally substituted with a group selected from C_1-C_4 alkoxyl or C_1-C_4 haloalkoxyl, C_2-C_6 alkylthioalkoxyl, C_2-C_6 haloalkylthioalkoxyl, C_3-C_{12} dialkoxyalkyl, C_3-C_{12} dialkylthioalkyl, C_3-C_{12} dialkylthioalkoxyl, C_3-C_{12} dialkoxyalkoxyl, C_2-C_6 haloalkoxyhaloalkoxyl, C_3-C_{10} alkoxyalkoxyalkyl, C_2-C_6 alkenyl, C_2-C_6 haloalkenyl, C_2-C_6 alkenyloxy, C_2-C_6 haloalkenyloxy, C_3-C_8 alkenyloxyalkoxyl, C_3-C_8 haloalkenyloxyalkoxyl, C_2-C_6 alkynyl, C_2-C_6 haloalkynyl, C_2-C_6 alkynyloxy, C_2-C_6 haloalkynyloxy, C_3-C_8 alkynyloxyalkoxyl, C_3-C_8 haloalkynyloxyalkoxyl, C_3-C_{12} acylaminoalkoxy, C_2-C_8 alkoxyiminoalkyl, C_2-C_8 haloalkoxyiminoalkyl, C_3-C_8 alkenyloxyiminoalkyl, C_3-C_8 haloalkenyloxyiminoalkyl, C_3-C_8 alkynyloxyiminoalkyl, C_3-C_8 haloalkynyloxyiminoalkyl, C_5-C_{10} alkoxyalkynyloxyl, C_6-C_{12} cycloalkylideneiminooxyalkyl, C_6-C_{12} dialkylideneiminooxyalkyl, $-S(O)_mR_1$, $-OS(O)_tR_1$, $-SO_2NR_2R_3$, $-CO_2R_4$, $-COR_5$, $-CONR_6R_7$, $-CSNR_8R_9$, $-NR_{10}R_{11}$, $-NR_{12}COR_{13}$, $-NR_{14}CO_2R_{15}$, $-NR_{16}CONR_{17}R_{18}$, $-PO(R_{19})_2$, $-Q$, $-ZQ_1$, $-(CR_{20}R_{21})_pQ_2$, $-Z(CR_{22}R_{23})_pQ_3$, $-(CR_{24}R_{25})_pZQ_4$, $-(CR_{26}R_{27})_pZ(CR_{28}R_{29})_qQ_5$, $-(CR_{30}R_{31})_pZ(CR_{32}R_{33})_qZ_1Q_6$, $-Z_2(CR_{34}R_{35})_p(C=Y)T$, $-Z_3(CR_{36}R_{37})_v(CR_{38}R_{39}=CR_{40}R_{41})(C=Y)T$;

- B represents a $D-(R_x)_n$ group;

- R represents a hydrogen atom, a linear or branched C_1-C_6 alkyl group, a linear or branched C_1-C_6 haloalkyl group, a C_3-C_6 cycloalkyl or C_4-C_{12} cyclo-alkylalkyl group optionally substituted with halogen atoms or C_1-C_6 alkyl or C_1-C_6 thioalkyl or C_1-C_6 alkoxyl or C_2-C_6 alkoxycarbonyl groups, C_2-C_6 alkenyl groups, C_2-C_6 alkynyl groups, the latter two groups, in turn, optionally substituted with halogen atoms, a C_5-C_6 cycloalkenyl group optionally substituted with halogen atoms or C_1-C_6 alkyl groups, an aryl or arylalkyl group optionally substituted;

- R_1 and R_{19} represent a C_1-C_6 alkyl group or a C_1-C_6 haloalkyl group, a C_3-C_6 cycloalkyl group, an aryl group optionally substituted by one or more substituents selected from halogen, NO_2, CN, CHO, linear or branched C_1-C_6 alkyl, linear or branched C_1-C_6 haloalkyl, linear or branched C_1-C_6 alkoxyl, linear or branched C_1-C_6 haloalkoxyl, C_1-C_6 alkylsulfonyl, C_2-C_6 alkoxycarbonyl;

- m is equal to 0, 1 or 2;

- t is equal to 1 or 2;

- R_2, R_3, R_6, R_7, R_8, R_9, R_{10}, R_{11}, R_{17} and R_{18}, the same or different, represent a hydrogen atom, a linear or branched C_1-C_6 alkyl group in turn optionally

substituted with halogen atoms, a C_1-C_6 alkoxyl group, a C_3-C_6 cycloalkyl group, an arylalkyl group or an aryl group, said arylalkyl and aryl groups also optionally substituted by one or more substituents selected from halogen, NO_2, CN, CHO, linear or branched C_1-C_6 alkyl, linear or branched C_1-C_6 haloalkyl, linear or branched C_1-C_6 alkoxyl, linear or branched C_1-C_6 haloalkoxyl, C_1-C_6 alkylsulfonyl, C_2-C_6 alkoxycarbonyl, or they jointly represent a C_2-C_5 alkylene group;

- R_4, R_5 and R_{42} represent a hydrogen atom, a linear or branched C_1-C_6 alkyl group in turn optionally substituted with halogen atoms, a C_3-C_6 alkenyl group in turn optionally substituted with halogen atoms, a Q_7 group, an arylalkyl group optionally substituted by one or more substituents selected from halogen, NO_2, CN, CHO, linear or branched C_1-C_6 alkyl, linear or branched C_1-C_6 haloalkyl, linear or branched C_1-C_6 alkoxyl, linear or branched C_1-C_6 haloalkoxyl, C_1-C_6 alkylsulfonyl, C_2-C_6 alkoxycarbonyl;

- R_{12}, R_{14} and R_{16} represent a hydrogen atom, a linear or branched C_1-C_6 alkyl group in turn optionally substituted with halogen atoms, a C_3-C_6 cycloalkyl group, a C_1-C_6 alkoxyl group, a C_1-C_6 haloalkoxyl group;

- R_{13} and R_{15} represent a hydrogen atom, a linear or branched C_1-C_6 alkyl group in turn optionally substituted with halogen atoms, a C_3-C_6 alkenyl group in turn optionally substituted with halogen atoms, a Q_7, NH_2, NHCN, $NHNH_2$, NHOH group, an arylalkyl group optionally substituted by one or more substituents selected from halogen, NO_2, CN, CHO, linear or branched C_1-C_6 alkyl, linear or branched C_1-C_6 haloalkyl, linear or branched C_1-C_6 alkoxyl, linear or branched C_1-C_6 haloalkoxyl, C_1-C_6 alkylsulfonyl, C_2-C_6 alkoxycarbonyl;

- R_{20}, R_{21}, R_{22}, R_{23}, R_{24}, R_{25}, R_{26}, R_{27}, R_{28}, R_{29}, R_{30}, R_{31}, R_{32}, R_{33}, R_{34}, R_{35}, R_{36}, R_{37}, R_{38}, R_{39}, R_{40} and R_{41}, the same or different, represent a hydrogen atom, a linear or branched C_1-C_6 alkyl group in turn optionally substituted with halogen atoms, a C_1-C_6 alkoxyl group, or the two groups attached to the same carbon atom can be joined to each other by C_2-C_5 alkylene groups, the alkylene groups can in turn be substituted with C_1-C_3 alkyl groups;

- Q, Q_1, Q_2, Q_3, Q_4, Q_5, Q_6 and Q_7 represent an aryl group, a C_3-C_6 cycloalkyl group, a C_5-C_6 cycloalkenyl group, a heterocyclic group selected from triazolyl, triazolonyl, pyrazolyl, imidazolyl, imidazolidinonyl, tetrazolyl, tetrazolonyl, isoxazolyl, furyl, thienyl,

pyrrolyl, pyrrolidinyl, pyrrolidinonyl, pyridyl, pyrimidinyl, pyrimidinonyl, pyrazinyl, pyridazinyl, oxazolyl, thiazolyl, oxadiazolyl, thiadiazolyl, isothiazolyl, benzoxazolyl, benzothiazolyl, isoxazolinyl, 1,3-dioxanyl, 1,4-dioxanyl, 1,3-dioxolanyl, tetrahydropyranyl, oxethanyl, oxyranyl, thiazolidinyl, oxazolidinyl, piperidinyl, piperidinonyl, piperazinyl, morpholinyl, thiazinyl, tetrahydrofuranyl, dioxazolyl, tetrahydrofuroisoxazolyl, 2-oxa-3-azabicyclo[3.1.0]hex-3-enyl,

said groups optionally substituted by one or more substituents selected from halogen, NO_2, OH, CN, CHO, linear or branched C_1-C_6 alkyl, linear or branched C_1-C_6 haloalkyl, linear or branched C_1-C_6 alkoxyl, linear or branched C_1-C_6 haloalkoxyl, C_1-C_6 cyanoalkyl, C_2-C_6 alkoxyalkyl, C_2-C_6 alkylthioalkyl, C_2-C_6 alkylsulfinylalkyl, C_2-C_6 alkylsulfonylalkyl, C_2-C_6 haloalkoxyalkyl, C_2-C_6 haloalkylthioalkyl, C_2-C_6 haloalkylsulfinylalkyl, C_2-C_6 haloalkylsulfonylalkyl, C_2-C_6 alkoxyalkoxyl or C_2-C_6 haloalkoxyalkoxyl optionally substituted with a group selected from C_1-C_4 alkoxyl or C_1-C_4 haloalkoxyl, C_2-C_6 alkylthioalkoxyl, C_2-C_6 haloalkylthioalkoxyl, C_3-C_{12} dialkoxyalkyl, C_3-C_{12} dialkylthioalkyl, C_3-C_{12}

dialkylthioalkoxyl, C_3-C_{12} dialkoxyalkoxyl, C_2-C_6 haloalkoxyhaloalkoxyl, C_3-C_{10} alkoxyalkoxyalkyl, C_2-C_6 alkenyl, C_2-C_6 haloalkenyl, C_2-C_6 alkenyloxy, C_2-C_6 haloalkenyloxy, C_3-C_8 alkenyloxyalkoxyl, C_3-C_8 haloalkenyloxyalkoxyl, C_2-C_6 alkynyl, C_2-C_6 haloalkynyl, C_2-C_6 alkynyloxy, C_2-C_6 haloalkynyloxy, C_3-C_8 alkynyloxyalkoxyl, C_3-C_8 haloalkynyloxyalkoxyl, C_3-C_{12} acylaminoalkoxy, C_2-C_8 alkoxyiminoalkyl, C_2-C_8 haloalkoxyiminoalkyl, C_3-C_8 alkenyloxyiminoalkyl, C_3-C_8 haloalkenyloxyiminoalkyl, C_3-C_8 alkynyloxyiminoalkyl, C_3-C_8 haloalkynyloxyiminoalkyl, C_5-C_{10} alkoxyalkynyloxyl, C_6-C_{12} cycloalkylideneiminooxyalkyl, C_6-C_{12} dialkylideneiminooxyalkyl, aryl optionally substituted, $-S(O)_mR_1$, $-OS(O)_tR_1$, $-SO_2NR_2R_3$, $-CO_2R_4$, $-COR_5$, $-CONR_6R_7$, $-CSNR_8R_9$, $-NR_{10}R_{11}$, $-NR_{12}COR_{13}$, $-NR_{14}CO_2R_{15}$, $-NR_{16}CONR_{17}R_{18}$, $-PO(R_{19})_2$, $-Z_2(CR_{34}R_{35})_p(C=Y)T$, $-Z_3(CR_{36}R_{37})_v(CR_{38}R_{39}=CR_{40}R_{41})(C=Y)T$;

- Z, Z_1, Z_2 = O, $S(O)_r$;
- Y = O, S;
- r is equal to 0, 1 or 2;
- p, q are equal to 1, 2, 3 or 4;
- v is equal to 0 or 1;
- Z_3 = O, S or a direct bond;

- T represents a hydrogen atom, a Z_4R_{42} group, a $-NR_{43}R_{44}$ group, an aryl group or a heterocyclic group selected from triazolyl, triazolonyl, pyrazolyl, imidazolyl, imidazolidinonyl, tetrazolyl, tetrazolonyl, pyrrolyl, pyrrolidinyl, pyrrolidinonyl, pyridyl, pyrimidinyl, piperidinyl, piperidinonyl, piperazinyl, morpholinyl, said groups optionally substituted by one or more substituents selected from halogen, NO_2, OH, CN, CHO, linear or branched C_1-C_6 alkyl, linear or branched C_1-C_6 haloalkyl, C_3-C_6 cycloalkyl, C_5-C_6 cycloalkenyl, linear or branched C_1-C_6 alkoxyl, linear or branched C_1-C_6 haloalkoxyl, C_1-C_6 cyanoalkyl, C_2-C_6 alkoxyalkyl, C_2-C_6 alkylthioalkyl, C_2-C_6 alkylsulfinylalkyl, C_2-C_6 alkylsulfonylalkyl, C_2-C_6 haloalkoxyalkyl, C_2-C_6 haloalkylthioalkyl, C_2-C_6 haloalkylsulfinylalkyl, C_2-C_6 haloalkylsulfonylalkyl, $-S(O)_mR_1$;
- Z_4 = O, S or a direct bond;
- R_{43} and R_{44}, the same or different, represent a hydrogen atom, a linear or branched C_1-C_6 alkyl group in turn optionally substituted with halogen atoms, a C_3-C_6 alkenyl group in turn optionally substituted with halogen atoms, a Q_7 group, an arylalkyl group optionally substituted by one or more substituents selected from halogen, NO_2, CN, CHO, linear or

branched C_1-C_6 alkyl, linear or branched C_1-C_6 haloalkyl, linear or branched C_1-C_6 alkoxyl, linear or branched C_1-C_6 haloalkoxyl, C_1-C_6 alkylsulfonyl, C_2-C_6 alkoxycarbonyl, or they jointly represent a C_2-C_5 alkylene chain;

- D represents:

a heterocyclic group of the heteroaryl or heterocyclic type, in all the above cases the heterocycle can be mono or polycyclic and can be connected to the rest of the structure either through one of its carbon atoms or, when possible, through one of its nitrogen atoms;

or it represents a mono or polycyclic aryl group, in this latter case, the group can also be partially saturated;

- R_x represents a substituent selected from hydrogen, halogen, NO_2, CN, CHO, OH, linear or branched C_1-C_6 alkyl, linear or branched C_1-C_6 haloalkyl, linear or branched C_1-C_6 alkoxyl, linear or branched C_1-C_6 haloalkoxyl, C_1-C_6 cyanoalkyl, C_2-C_6 alkoxyalkyl, C_2-C_6 alkylthioalkyl, C_2-C_6 alkylsulfinylalkyl, C_2-C_6 alkylsulfonylalkyl, C_2-C_6 haloalkoxyalkyl, C_2-C_6 haloalkylthioalkyl, C_2-C_6 haloalkylsulfinylalkyl, C_2-C_6 haloalkylsulfonylalkyl, C_2-C_6 alkoxyalkoxyl or C_2-C_6 haloalkoxyalkoxyl optionally substituted with a

group selected from C_1-C_4 alkoxyl or C_1-C_4 haloalkoxyl, C_2-C_6 haloalkylthioalkoxyl, C_3-C_{12} dialkoxyalkyl, C_3-C_{12} dialkylthioalkyl, C_3-C_{12} dialkylthioalkoxyl, C_3-C_{12} dialkoxyalkoxyl, C_2-C_6 haloalkoxyhaloalkoxyl, C_3-C_{10} alkoxyalkoxyalkyl, C_2-C_6 alkenyl, C_2-C_6 haloalkenyl, C_2-C_6 alkenyloxy, C_2-C_6 haloalkenyloxy, C_3-C_8 alkenyloxyalkoxyl, C_3-C_8 haloalkenyloxyalkoxyl, C_2-C_6 alkynyl, C_2-C_6 haloalkynyl, C_2-C_6 alkynyloxy, C_2-C_6 haloalkynyloxy, C_3-C_8 alkynyloxyalkoxyl, C_3-C_8 haloalkynyloxyalkoxyl, C_3-C_{12} acylaminoalkoxy, C_2-C_8 alkoxyiminoalkyl, C_2-C_8 haloalkoxyiminoalkyl, C_3-C_8 alkenyloxyiminoalkyl, C_3-C_8 haloalkenyloxyiminoalkyl, C_3-C_8 alkynyloxyiminoalkyl, C_3-C_8 haloalkynyloxyiminoalkyl, C_5-C_{10} alkoxyalkynyloxyl, C_6-C_{12} cycloalkylideneiminooxyalkyl, C_6-C_{12} dialkylideneiminooxyalkyl, $-S(O)_mR_1$, $-OS(O)_tR_1$, $-SO_2NR_2R_3$, $-CO_2R_4$, $-COR_5$, $-CONR_6R_7$, $-CSNR_8R_9$, $-NR_{10}R_{11}$, $-NR_{12}COR_{13}$, $-NR_{14}CO_2R_{15}$, $-NR_{16}CONR_{17}R_{18}$, $-PO(R_{19})_2$, $-Q$, $-ZQ_1$, $-(CR_{20}R_{21})_pQ_2$, $-Z(CR_{22}R_{23})_pQ_3$, $-(CR_{24}R_{25})_pZQ_4$, $-(CR_{26}R_{27})_pZ(CR_{28}R_{29})_qQ_5$, $-(CR_{30}R_{31})_pZ(CR_{32}R_{33})_qZ_1Q_6$, $-Z_2(CR_{34}R_{35})_p(C=Y)T$, $-Z_3(CR_{36}R_{37})_v(CR_{38}R_{39}=CR_{40}R_{41})(C=Y)T$;

if several R_x groups are present, these can be the same or different;

- n = 1-9;

excluding the following compounds having general formula (I) wherein A, B and R have the following meanings:

A=4-chlorophenyl, B=1-methylimidazol-2-yl, R=H;

A=4-nitrophenyl, B=1-(2-hydroxyethyl)-5-nitroimidazol-2-yl, R=H;

A=phenyl, B=1H-benzimidazol-2-yl, R=C_2H_5;

A=phenyl, B=4H-1-benzopyran-4-yl, R=CH_3;

A=4-nitrophenyl, B=3-(4-methylphenyl)-1,2,4-oxadiazol-5-yl, R=CH_3;

A=phenyl, B=4-chloro-2,5-dioxo-2,5-dihydro-1H-pyrrol-3-yl, R=CH_3;

A=phenyl, B=2-acetyl-1,2,3,4-tetrahydroisoquinolin-1-yl, R=C_2H_5;

A=2-hydroxy-4-methoxyphenyl, B=thiazol-4-yl, R=CH_3;

A=phenyl, B=2,5-diphenyl-1,3-oxathiol-2-yl, R=CH_3;

A=4-nitrophenyl, B=4,6-bis(dimethylamino)-1,3,5-triazin-2-yl, R=CH_3;

A=phenyl, B=furan-2-yl, R=CH_3;

A=phenyl, B=1,3-dithian-2-yl, R=CH_3;

A=phenyl, B=4-chlorothien-2-yl, R=H;

A=phenyl, B=5-bromothien-2-yl, R=H;

A=phenyl, B=5-methylthien-2-yl, R=H;

A=phenyl, B=6-phenylpyrazin-2-yl, R=CH_3;

A=phenyl, B=3,4-dihydro-3-methyl-2-oxo-2H-1,3-benzo-oxazin-4-yl, R=CH_3;

A=phenyl, B=benzothiazol-2-yl, R=CH_3;

A=2-hydroxy-4-methoxyphenyl, B=2-phenylthiazol-4-yl, R=CH_3;

A=phenyl, B=5-methylfuran-2-yl, R=CH_3;

A=phenyl, B=3-(4-methylphenyl)-1,2,4-oxadiazol-5-yl, R=CH_3;

A=phenyl, B=tetrahydrofuran-2-yl, R=CH_3;

A=phenyl, B=2,3-dihydro-3-hydroxy-2-oxo-1H-indol-3-yl, R=CH_3,

A=phenyl, B=4-chloro-1-methyl-2,5-dioxo-2,5-dihydro-pyrrol-3-yl, R=CH_3;

A=phenyl, B=2-trifluoroacetyl-1,2,3,4-tetrahydroiso-quinolin-1-yl, R=C_2H_5;

A=phenyl, B=2-acetyl-1,2,3,4-tetrahydroisoquinolin-1-yl, R=CH_3;

A=4-nitrophenyl, B=2-(4-nitrophenyl)-3,5,6-triphenyl-pyridin-4-yl, R=CH_3;

A=phenyl, B=4,6-bis(dimethylamino)-1,3,5-triazin-2-yl, R=CH_3;

A=phenyl, B=4-methoxy-5-tert-butoxycarbonyl-1H-pyrro-2-yl, R=CH_3;

A=phenyl, B=1,3-dihydro-3-oxo-isobenzofuran-1-yl, R=CH_3;

A=phenyl, B=(5-methoxycarbonylmethyl)thien-2-yl, R=H;

A=phenyl, B=4-methylthien-2-yl, R=H;

A=phenyl, B=1,4-dihydro-1-methyl-3-nitroquinolin-4-yl, R=H;

A=phenyl, B=thien-2—yl, R=H;

A=phenyl, B=6-methylbenzothiazol-2-yl, R=CH_3;

A=2-methoxycarbonylphenyl, B=phenyl, R=CH_3;

A=2-benzyloxy-4-methoxyphenyl, B=2,3,4-trimethoxyphenyl, R=H;

A=4,5-dimethoxy-2-nitrophenyl, B=3,4-dimethoxyphenyl, R=H;

A=2-nitrophenyl, B=phenyl, R=H;

A=2,4,5-trimethoxyphenyl, B=4-methoxyphenyl, R=H;

A=4-bromophenyl, B=phenyl, R=H;

A=4-bromophenyl, B=2,4-dinitrophenyl, R=CH_3;

A=4-chlorophenyl, B=phenyl, R=H;

A=2,4-dibenzyloxy-5—methoxyphenyl, B=1,3-benzodioxol-5-yl, R=H;

A=2,4-dibenzyloxyphenyl, B=1,3-benzodioxol-5-yl, R=H;

A=4-methoxyphenyl, B=2-carboxyphenyl, R=H;

A=4-methylphenyl, B=2,4-dinitrophenyl, R=CH_3;

A=4-hydroxy-3-methoxyphenyl, B=4-hydroxy-3-methoxyphenyl, R=H;

A=2-nitrophenyl, B= 4-methylphenyl, R=H;

A=4-chlorophenyl, B=4-chlorophenyl, R=H;

A=2,4-diacetoxyphenyl, B=phenyl, R=CH_3;

A=3-methoxyphenyl, B=phenyl, R=C_2R_5;

A=4-nitrophenyl, B=phenyl, R=H;

A=2-nitrophenyl, B=4-n-butoxyphenyl, R=H;

A=2-nitro-4-chlorophenyl, B=4-methylphenyl, R=H;

A=phenyl, B=8-carboxynaphthalenyl, R=CH_3;

A=2,5-dimethoxyphenyl, B=2-hydroxyphenyl, R=C_2R_5;

A=4-fluorophenyl, B=2-nitro-4-trifluoromethylphenyl, R=CH_3;

A=3-chloro-4-methylphenyl, B=2,4-dinitrophenyl, R=CH_3;

A=2-nitro-4-chlorophenyl, B=phenyl, R=H;

A=4,5-dimethoxy-2-nitrophenyl, B=4-methylphenyl, R=H;

A=2-carboxy-6-nitrophenyl, B=phenyl, R=CH_3;

A=2,4,5-trimethoxyphenyl, B=3-methoxyphenyl, R=H;

A=phenyl, B=4-bromophenyl, R=H;

A=6-benzyloxy-2,3,4-trimethoxyphenyl, B=1,3-benzodioxol-5-yl, R=H;

A=4,5-dimethoxy-2-nitrophenyl, B=4-methoxyphenyl, R=H;

A=4,5-dimethoxy-2-nitrophenyl, B=4-chlorophenyl, R=H;

A=2,4-dibenzyloxyphenyl, B=4-methoxyphenyl, R=H;

A=4-methylphenyl, B=4-methylphenyl, R=H;

A=4-dimethylaminophenyl, B=phenyl, R=H;

A=4-methoxyphenyl, B=phenyl, R=H;

A=4,5-dichloro-2-nitrophenyl, B=4-chlorophenyl, R=H;

A=2-nitrophenyl, B=4-methoxyphenyl, R=H;

A=phenyl, B=2,5-dimethoxycarbonylaminophenyl, R=CH_3;

A=4-hydroxy-4-methoxyphenyl, B=2-methoxyphenyl, R=H;

A=phenyl, B=4-methylphenyl, R=H;

A=2-nitrophenyl, B=4-ethoxyphenyl, R=H;

A=2-nitro-4-chlorophenyl, B=4-methoxyphenyl, R=H;

A=4-chlorophenyl, B=phenyl, R=C_2H_5;

A=2-t-butoxycarbonyl-5-ethyl-4-methoxyphenyl, B=2,3-dihydro-7-methyl-1,4-benzodioxin-6-yl, R=t-butyl;

A=phenyl, B=2-nitro-4-trifluoromethylphenyl, R=CH_3;

A=3,4-dichlorophenyl, B=2,4-dinitrophenyl, R=CH_3;

A=4,5-dichloro-2-nitrophenyl, B=4-methoxyphenyl, R=H;

A=4-methoxy-2-nitrophenyl, B=4-methylphenyl, R=H;

A=phenyl, B=anthracene-9-yl, R=CH_3;

A=phenyl, B=4-methoxyphenyl, R=H;

A=2,4,5-trimethoxyphenyl, B=phenyl, R=H;

A=2,4-diacetoxyphenyl, B=2,4,5-trimethoxyphenyl, R=CH_3;

A=2-hydroxyphenyl, B=phenyl, R=H;

A=4-methoxy-2-nitrophenyl, B=phenyl, R=H;

A=4,5-dimethoxy-2-nitrophenyl, B=phenyl, R=H;

A=2,4-dinitrophenyl, B=phenyl, R=CH_3;

A=phenyl, B=phenyl, R=CH_3;

A=phenyl, B=4-dimethylaminophenyl, R=H;

A=phenyl, B=2,4-dinitrophenyl, R=CH_3;

A=4,5-dichloro-2-nitrophenyl, B=4-methylphenyl, R=H;

A=4-bromophenyl, B=phenyl, R=CH_3;

A=2-(4-methylphenylsulfonyloxy)-6-methoxyphenyl, B=phenyl, R=H;

A=4-methylsulfonylphenyl, B=2-methoxyphenyl, R=CH_3;

A=4-methoxyphenyl, B=4-methoxyphenyl, R=CH_3;

A=phenyl, B=4-chlorophenyl, R=H;

A=2-nitrophenyl, B=4-nitrophenyl, R=H;

A=phenyl, B=phenyl, R=H;

A=2,4-dimethoxyphenyl, B=4-methoxyphenyl, R=H;

A=2-nitrophenyl, B=4-n-hexyloxyphenyl, R=H;

A=4-methoxy-2-nitrophenyl, B=4-methoxyphenyl, R=H;

A=phenyl, B=9-carboxyphenanthren-10-yl, R=CH_3;

A=phenyl, B=phenyl, R=CH_3;

A=3,4-dimethoxyphenyl, B=3,4-dimethoxyphenyl, R=H;

A=2,4-dimethoxyphenyl, B=phenyl, R=H;

A=phenyl, B=2-hydroxy-3,4,6-trimethyl-5-methoxyphenyl, R=CH_3;

A=4-chloro-2-nitrophenyl, B=4-chlorophenyl, R=H;

A=2-nitrophenyl, B=4-chlorophenyl, R=H;

A=2,4,5-trimethoxyphenyl, B=3,4-dimethoxyphenyl, R=H;

A=4-chlorophenyl, B=2,4-dinitrophenyl, R=CH_3;

A=4,5-dichloro-2-nitrophenyl, B=phenyl, R=H;

A=4-methoxyphenyl, B=phenyl, R=CH_3;

A=2,4-dibenzyloxyphenyl, B=3,4-dimethoxyphenyl, R=H;

A=4-methylthiophenyl, B=4-methoxyphenyl, R=CH_3;

A=phenyl, B=phenyl, R=C_2H_5;

A=4-methoxyphenyl, B=2,4-dinitrophenyl, R=CH_3;

A=2-nitrophenyl, B=3-chlorophenyl, R=H;

A=2-nitrophenyl, B=3,4-dimethoxyphenyl, R=H;

A=4-methoxyphenyl, B=4-methoxyphenyl, R=H;

A=2-hydroxyphenyl, B=4-methoxyphenyl, R=H;

A=phenyl, B=2,5-bis(phenacylamino)phenyl, R=CH_3;

A=4-nitrophenyl, B=4-methylphenyl, R=H;

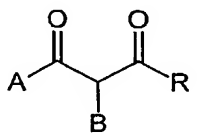
A=2-nitrophenyl, B=4-n-pentyloxyphenyl, R=H;

A=4-methoxy-2-nitrophenyl, B=4-chlorophenyl, R=H;

A=phenyl, B=2-carboxynaphthalen-1-yl, R=CH_3.

2. The derivatives according to claim 1, characterized in that the compound having formula (I) are present as tautomeric and/or isomeric forms, pure or as blends of tautomeric and/or isomeric forms, in any proportion whatsoever.

3. Use of derivatives of 1,3-diones having general formula (I):



(I)

wherein:

- A represents:

an aryl group optionally substituted by one or more substituents selected from halogen, NO_2, CN, CHO, OH, linear or branched C_1-C_6 alkyl, linear or branched C_1-C_6 haloalkyl, linear or branched C_1-C_6 alkoxyl, linear or branched C_1-C_6 haloalkoxyl, C_1-C_6 cyanoalkyl, C_2-C_6 alkoxyalkyl, C_2-C_6 alkylthioalkyl, C_2-C_6 alkylsulfinylalkyl, C_2-C_6 alkylsulfonylalkyl, C_2-C_6 haloalkoxyalkyl, C_2-C_6 haloalkylthioalkyl, C_2-C_6 haloalkylsulfinylalkyl, C_2-C_6 haloalkylsulfonylalkyl, C_2-C_6 alkoxyalkoxyl or C_2-C_6 haloalkoxyalkoxyl possibly substituted with a C_1-C_4 alkoxyl or C_1-C_4 haloalkoxyl group, C_2-C_6 alkylthioalkoxyl, C_2-C_6 haloalkylthioalkoxyl, C_3-C_{12} dialkoxyalkyl, C_3-C_{12} dialkylthioakyl, C_3-C_{12} dialkylthioalkoxyl, C_3-C_{12} dialkoxyalkoxyl, C_2-C_6 haloalkoxyhaloalkoxyl, C_3-C_{10} alkoxyalkoxyalkyl, C_2-C_6 alkenyl, C_2-C_6 haloalkenyl, C_2-C_6 alkenyloxy, C_2-C_6 haloalkenyloxy, C_3-C_8 alkenyloxyalkoxyl, C_3-C_8 haloalkenyloxyalkoxyl, C_2-C_6 alkynyl, C_2-C_6 haloalkynyl, C_2-C_6 alkynyloxy, C_2-C_6 haloalkynyloxy, C_3-C_8 alkynyloxyalkoxyl, C_3-C_8 haloalkynyloxyalkoxyl, C_3-C_{12} acylaminoalkoxy, C_2-C_8 alkoxyiminoalkyl, C_2-C_8 haloalkoxyiminoalkyl, C_3-C_8 alkenyloxyiminoalkyl, C_3-C_8 haloalkenyloxyiminoalkyl,

C_3-C_8 alkynyloxyiminoalkyl, C_3-C_8 haloalkynyloxyiminoalkyl, C_5-C_{10} alkoxyalkynyloxyl, C_6-C_{12} cycloalkylideneiminooxyalkyl, C_6-C_{12} dialkylideneiminooxyalkyl, $-S(O)_mR_1$, $-OS(O)_tR_1$, $-SO_2NR_2R_3$, $-CO_2R_4$, $-COR_5$, $-CONR_6R_7$, $-CSNR_8R_9$, $-NR_{10}R_{11}$, $-NR_{12}COR_{13}$, $-NR_{14}CO_2R_{15}$, $-NR_{16}CONR_{17}R_{18}$, $-PO(R_{19})_2$, $-Q$, $-ZQ_1$, $-(CR_{20}R_{21})_pQ_2$, $-Z(CR_{22}R_{23})_pQ_3$, $-(CR_{24}R_{25})_pZQ_4$, $-(CR_{26}R_{27})_pZ(CR_{28}R_{29})_qQ_5$, $-(CR_{30}R_{31})_pZ(CR_{32}R_{33})_qZ_1Q_6$, $-Z_2(CR_{34}R_{35})_p(C=Y)T$, $-Z_3(CR_{36}R_{37})_v(CR_{38}R_{39}=CR_{40}R_{41})(C=Y)T$;

or represents a heterocyclic group selected from pyridyl, pyrimidyl, quinolinyl, pyrazolyl, thiazolyl, oxazolyl, thienyl, furyl, benzothienyl, dihydrobenzothienyl, benzofuranyl, dihydrobenzofuranyl, benzoxazolyl, benzoxazolonyl, benzothiazolyl, benzothiazolonyl, benzoimidazolyl, benzoimidazolonyl, benzotriazolyl, chromanonyl, chromanyl, thiochromanonyl, thiochromanyl, 3a,4-dihydro-3H-indeno[1,2-c]isoxazolyl, 3a,4-dihydro-3H-chromeno[4,3-c]isoxazolyl, 5,5-dioxide-3a,4-dihydro-3H-thiochromeno[4,3-c]isoxazolyl, 2,3,3a,4-tetrahydrochromeno[4,3-c]pyrazolyl, 6,6-dioxide-2,3-dihydro-5H-[1,4]dithiino[2,3-c]thiochromenyl, 5,5-dioxide-2,3,3a,4-tetrahydrothiochromeno[4,3-c]pyrazolyl, 1',1'-dioxide-2',3'-dihydrospiro[1,3-

dioxolane-2,4'-thiochromen]-yl, 1,1,4,4-tetraoxide-2,3-dihydro-1,4-benzodithiin-6-yl 4,4-dioxide-2,3-dihydro-1,4-benzoxathiin-7-yl, 1,1-dioxide-3-oxo-2,3-dihydro-1,2-benzoisothiazol-5-yl, 4-(alkoxyimino)-1,1-dioxide-3,4-dihydro-2H-thiochromen-6-yl, 1,1-dioxide-4-oxo-3,4-dihydro-2H-thiochromen-6-yl, 2,3-dihydro-1,4-benzoxathiin-7-yl,

with all these groups possibly substituted by one or more substituents selected from halogen, NO_2, CN, CHO, OH, linear or branched C_1-C_6 alkyl, linear or branched C_1-C_6 haloalkyl, linear or branched C_1-C_6 alkoxyl, linear or branched C_1-C_6 haloalkoxyl, C_1-C_6 cyanoalkyl, C_2-C_6 alkoxyalkyl, C_2-C_6 alkylthioalkyl, C_2-C_6 alkylsulfinylalkyl, C_2-C_6 alkylsulfonylalkyl, C_2-C_6 haloalkoxyalkyl, C_2-C_6 haloalkylthioalkyl, C_2-C_6 haloalkylsulfinylalkyl, C_2-C_6 haloalkylsulfonylalkyl, C_2-C_6 alkoxyalkoxyl or C_2-C_6 haloalkoxyalkoxyl, possibly substituted with a C_1-C_4 alkoxyl or C_1-C_4 haloalkoxyl group, C_2-C_6 alkylthioalkoxyl, C_2-C_6 haloalkylthioalkoxyl, C_3-C_{12} dialkoxyalkyl, C_3-C_{12} dialkylthioalkyl, C_3-C_{12} dialkylthioalkoxyl, C_3-C_{12} dialkoxyalkoxyl, C_2-C_6 haloalkoxyhaloalkoxyl, C_3-C_{10} alkoxyalkoxyalkyl, C_2-C_6 alkenyl,

C_2-C_6 haloalkenyl, C_2-C_6 alkenyloxy, C_2-C_6 haloalkenyloxy, C_3-C_8 alkenyloxyalkoxyl, C_3-C_8

haloalkenyloxyalkoxyl, C_2-C_6 alkynyl, C_2-C_6 haloalkynyl, C_2-C_6 alkynyloxy, C_2-C_6 haloalkynyloxy, C_3-C_8 alkynyloxyalkoxyl, C_3-C_8 haloalkynyloxyalkoxyl, C_3-C_{12} acylaminoalkoxy, C_2-C_8 alkoxyiminoalkyl, C_2-C_8 haloalkoxyiminoalkyl, C_3-C_8 alkenyloxyiminoalkyl, C_3-C_8 haloalkenyloxyiminoalkyl, C_3-C_8 alkynyloxyiminoalkyl, C_3-C_8 haloalkynyloxyiminoalkyl, C_5-C_{10} alkoxyalkynyloxyl, C_6-C_{12} cycloalkylideneiminooxyalkyl, C_6-C_{12} dialkylideneiminooxyalkyl, $-S(O)_mR_1$, $-OS(O)_tR_1$, $-SO_2NR_2R_3$, $-CO_2R_4$, $-COR_5$, $-CONR_6R_7$, $-CSNR_8R_9$, $-NR_{10}R_{11}$, $-NR_{12}COR_{13}$, $-NR_{14}CO_2R_{15}$, $-NR_{16}CONR_{17}R_{18}$, $-PO(R_{19})_2$, $-Q$, $-ZQ_1$, $-(CR_{20}R_{21})_pQ_2$, $-Z(CR_{22}R_{23})_pQ_3$, $-(CR_{24}R_{25})_pZQ_4$, $-(CR_{26}R_{27})_pZ(CR_{28}R_{29})_qQ_5$, $-(CR_{30}R_{31})_pZ(CR_{32}R_{33})_qZ_1Q_6$, $-Z_2(CR_{34}R_{35})_p(C=Y)T$, $-Z_3(CR_{36}R_{37})_v(CR_{38}R_{39}=CR_{40}R_{41})(C=Y)T$;

- B represents a $D-(R_x)_n$ group;

- R represents a hydrogen atom, a linear or branched C_1-C_6 alkyl group, a linear or branched C_1-C_6 haloalkyl group, a C_3-C_6 cycloalkyl group or a C_4-C_{12} cycloalkylalkyl group possibly substituted with halogen atoms or C_1-C_6 alkyl or C_1-C_6 thioalkyl or C_1-C_6 alkoxyl or C_2-C_6 alkoxycarbonyl groups, alkenyl C_2-C_6 groups, alkynyl C_2-C_6 groups, the latter two groups, in turn, possibly substituted with halogen

atoms, a C_5-C_6 cycloalkenyl group possibly substituted with halogen atoms or C_1-C_6 alkyl groups, an aryl or arylalkyl group optionally substituted;

- R_1 and R_{19}, represent a C_1-C_6 alkyl or C_1-C_6 haloalkyl group, a C_3-C_6 cycloalkyl group, an aryl group optionally substituted by one or more substituents selected from halogen, NO_2, CN, CHO, linear or branched C_1-C_6 alkyl, linear or branched C_1-C_6 haloalkyl, linear or branched C_1-C_6 alkoxyl, linear or branched C_1-C_6 haloalkoxyl, C_1-C_6 alkylsulfonyl, C_2-C_6 alkoxycarbonyl;
- m is equal to 0, 1 or 2;
- t is equal to 1 or 2;
- R_2, R_3, R_6, R_7, R_8, R_9, R_{10}, R_{11}, R_{17} and R_{18}, the same or different, represent a hydrogen atom, a linear or branched C_1-C_6 alkyl group in turn possibly substituted with halogen atoms, a C_1-C_6 alkoxyl group, a C_3-C_6 cycloalkyl group, an arylalkyl group or an aryl group, said arylalkyl or aryl groups also optionally substituted with one or more substituents selected from halogen, NO_2, CN, CHO, linear or branched C_1-C_6 alkyl, linear or branched C_1-C_6 haloalkyl, linear or branched C_1-C_6 alkoxyl, linear or branched C_1-C_6 haloalkoxyl, C_1-C_6 alkylsulfonyl,

C_2-C_6 alkoxycarbonyl or, together, represent a C_2-C_5 alkylenic chain;

- R_4, R_5 and R_{42}, represent a hydrogen atom, a linear or branched C_1-C_6 alkyl group in turn possibly substituted with halogen atoms, a C_3-C_6 alkenyl group in turn possibly substituted with halogen atoms, a Q_7 group, an arylalkyl group possibly substituted with one or more substituents selected from halogen, NO_2, CN, CHO, linear or branched C_1-C_6 alkyl, linear or branched C_1-C_6 haloalkyl, linear or branched C_1-C_6 alkoxyl, linear or branched C_1-C_6 haloalkoxyl, C_1-C_6 alkylsulfonyl, C_2-C_6 alkoxycarbonyl;

- R_{12}, R_{14} and R_{16}, represent a hydrogen atom, a linear or branched C_1-C_6 alkyl group in turn possibly substituted with halogen atoms, a C_3-C_6 cycloalkyl group, a C_1-C_6 alkoxyl group, a C_1-C_6 haloalkoxyl group;

- R_{13} and R_{15}, represent a hydrogen atom, a linear or branched C_1-C_6 alkyl group in turn possibly substituted with halogen atoms, a C_3-C_6 alkenyl group, in turn possibly substituted with halogen atoms, a Q_7 group, NH_2, NHCN, $NHNH_2$, NHOH, an arylalkyl group possibly substituted with one or more substituents selected from halogen, NO_2, CN, CHO, linear or branched C_1-C_6 alkyl, linear or branched C_1-

C_6 haloalkyl, linear or branched C_1-C_6 alkoxyl, linear or branched C_1-C_6 haloalkoxyl, C_1-C_6 alkylsulfonyl, C_2-C_6 alkoxycarbonyl;

- R_{20}, R_{21}, R_{22}, R_{23}, R_{24}, R_{25}, R_{26}, R_{27}, R_{28}, R_{29}, R_{30}, R_{31}, R_{32}, R_{33}, R_{34}, R_{35}, R_{36}, R_{37}, R_{38}, R_{39}, R_{40} and R_{41}, the same or different, represent a hydrogen atom, a linear or branched C_1-C_6 alkyl group in turn optionally substituted with halogen atoms, a C_1-C_6 alkoxyl group, or the two groups attached to the same carbon atom can be joined to each other by C_2-C_5 alkylene groups, the alkylene groups can in turn be substituted with C_1-C_3 alkyl groups;

- Q, Q_1, Q_2, Q_3, Q_4, Q_5, Q_6 and Q_7 represent an aryl group, a C_3-C_6 cycloalkyl group, C_5-C_6 cycloalkenyl, a heterocyclic group selected from triazolyl, triazolonyl, pyrazolyl, imidazolyl, imidazolydinonyl, tetrazolyl, tetrazolonyl, isoxazolyl, furyl, thienyl, pyrrolyl, pyrrolidinyl, pyrrolidinonyl, pyridyl, pyrimidinyl, pyrimidinonyl, pyrazinyl, pyridazinyl, oxazolyl, thiazolyl, oxadiazolyl, thiadiazolyl, isothiazolyl, benzoxazolyl, benzothiazolyl, isoxazolinyl, 1,3-dioxanyl, 1,4-dioxanyl, 1,3-dioxolanyl, tetrahydropyranyl, oxethanyl, oxyranyl, thiazolidinyl, oxazolidinyl, piperidinyl, piperidinonyl, piperazinyl, morpholinyl, thiazinyl,

tetrahydrofuranyl, dioxazolyl, tetrahydrofuroisoxazolyl, 2-oxa-3-azabicyclo[3.1.0]hex-3-enyl,

said groups optionally substituted by one or more substituents selected from halogen, NO_2, CN, CHO, linear or branched C_1-C_6 alkyl, linear or branched C_1-C_6 haloalkyl, linear or branched C_1-C_6 alkoxyl, linear or branched C_1-C_6 haloalkoxyl, C_1-C_6 cyanoalkyl, C_2-C_6 alkoxyalkyl, C_2-C_6 alkylthioalkyl, C_2-C_6 alkylsulfinylalkyl, C_2-C_6 alkylsulfonylalkyl, C_2-C_6 haloalkoxyalkyl, C_2-C_6 haloalkylthioalkyl, C_2-C_6 haloalkylsulfinylalkyl, C_2-C_6 haloalkylsulfonylalkyl, C_2-C_6 alkoxyalkoxyl or C_2-C_6 haloalkoxyalkoxyl optionally substituted with a group selected from C_1-C_4 alkoxyl or C_1-C_4 haloalkoxyl, C_2-C_6 alkylthioalkoxyl, C_2-C_6 haloalkylthioalkoxyl, C_3-C_{12} dialkoxyalkyl, C_3-C_{12} dialkylthioalkyl, C_3-C_{12} dialkylthioalkoxyl, C_3-C_{12} dialkoxyalkoxyl, C_2-C_6 haloalkoxyhaloalkoxyl, C_3—C_{10} alkoxyalkoxyalkyl, C_2-C_6 alkenyl, C_2-C_6 haloalkenyl, C_2-C_6 alkenyloxy, C_2-C_6 haloalkenyloxy, C_3-C_8 alkenyloxyalkoxyl, C_3-C_8 haloalkenyloxyalkoxyl, C_2-C_6 alkynyl, C_2-C_6 haloalkynyl, C_2-C_6 alkynyloxy, C_2-C_6 haloalkynyloxy, C_3-C_8 alkynyloxyalkoxyl, C_3-C_8 haloalkynyloxyalkoxyl, C_3-C_{12} acylaminoalkoxy, C_2-C_8 alkoxyiminoalkyl, C_2-C_8

haloalkoxyiminoalkyl, C_3-C_8 alkenyloxyiminoalkyl, C_3-C_8 haloalkenyloxyiminoalkyl, C_3-C_8 alkynyloxyiminoalkyl, C_3-C_8 haloalkynyloxyiminoalkyl, C_5-C_{10} alkoxyalkynyloxyl, C_6-C_{12} cycloalkylideneiminooxyalkyl, C_6-C_{12} dialkylideneiminooxyalkyl, aryl optionally substituted, $-S(O)_mR_1$, $-OS(O)_tR_1$, $-SO_2NR_2R_3$, $-CO_2R_4$, $-COR_5$, $-CONR_6R_7$, $-CSNR_8R_9$, $-NR_{10}R_{11}$, $-NR_{12}COR_{13}$, $-NR_{14}CO_2R_{15}$, $-NR_{16}CONR_{17}R_{18}$, $-PO(R_{19})_2$, $-Z_2(CR_{34}R_{35})_p(C=Y)T$, $-Z_3(CR_{36}R_{37})_v(CR_{38}R_{39}=CR_{40}R_{41})(C=Y)T$;

- Z, Z_1, Z_2 = O, $S(O)_r$;
- Y = O, S;
- r is equal to 0, 1 or 2;
- p, q are equal to 1, 2, 3 or 4;
- v is equal to 0 or 1;
- Z_3 = O, S or a direct bond;
- T represents a hydrogen atom, a Z_4R_{42} group, a $-NR_{43}R_{44}$ group, an aryl group or a heterocyclic group selected from triazolyl, triazolonyl, pyrazolyl, imidazolyl, imidazolidinonyl, tetrazolyl, tetrazolonyl, pyrrolyl, pyrrolidinyl, pyrrolidinonyl, pyridyl, pyrimidinyl, piperidinyl, piperidinonyl, piperazinyl, morpholinyl, said groups optionally substituted by one or more substituents selected from halogen, NO_2, OH, CN, CHO, linear or branched C_1-C_6

alkyl, linear or branched C_1-C_6 haloalkyl, C_3-C_6 cycloalkyl, C_5-C_6 cycloalkenyl, linear or branched C_1-C_6 alkoxyl, linear or branched C_1-C_6 haloalkoxyl, C_1-C_6 cyanoalkyl, C_2-C_6 alkoxyalkyl, C_2-C_6 alkylthioalkyl, C_2-C_6 alkylsulfinylalkyl, C_2-C_6 alkylsulfonylalkyl, C_2-C_6 haloalkoxyalkyl, C_2-C_6 haloalkylthioalkyl, C_2-C_6 haloalkylsulfinylalkyl, C_2-C_6 haloalkylsulfonylalkyl, $-S(O)_mR_1$;

- Z_4 = O, S or a direct bond;
- R_{43} and R_{44}, the same or different, represent a hydrogen atom, a linear or branched C_1-C_6 alkyl group in turn optionally substituted with halogen atoms, a C_3-C_6 alkenyl group in turn optionally substituted with halogen atoms, a Q_7 group, an arylalkyl group optionally substituted by one or more substituents selected from halogen, NO_2, CN, CHO, linear or branched C_1-C_6 alkyl, linear or branched C_1-C_6 haloalkyl, linear or branched C_1-C_6 alkoxyl, linear or branched C_1-C_6 haloalkoxyl, C_1-C_6 alkylsulfonyl, C_2-C_6 alkoxycarbonyl, or they jointly represent a C_2-C_5 alkylene chain;
- D represents:

a heterocyclic group of the heteroaryl or heterocyclic type, in all the above cases the heterocycle can be mono or polycyclic and can be

connected to the rest of the structure either through one of its carbon atoms or, when possible, through one of its nitrogen atoms;

or it represents a mono or polycyclic aryl group, in this latter case, the group can also be partially saturated;

- R_x represents a substituent selected from hydrogen, halogen, NO_2, CN, CHO, OH, linear or branched C_1-C_6 alkyl, linear or branched C_1-C_6 haloalkyl, linear or branched C_1-C_6 alkoxyl, linear or branched C_1-C_6 haloalkoxyl, C_1-C_6 cyanoalkyl, C_2-C_6 alkoxyalkyl, C_2-C_6 alkylthioalkyl, C_2-C_6 alkylsulfinylalkyl, C_2-C_6 alkylsulfonylalkyl, C_2-C_6 haloalkoxyalkyl, C_2-C_6 haloalkylthioalkyl, C_2-C_6 haloalkylsulfinylalkyl, C_2-C_6 haloalkylsulfonylalkyl, C_2-C_6 alkoxyalkoxyl or C_2-C_6 haloalkoxyalkoxyl optionally substituted with a group selected from C_1-C_4 alkoxyl or C_1-C_4 haloalkoxyl, C_2-C_6 alkylthioalkoxyl, C_2-C_6 haloalkylthioalkoxyl, C_3-C_{12} dialkoxyalkyl, C_3-C_{12} dialkylthioalkyl, C_3-C_{12} dialkylthioalkoxyl, C_3-C_{12} dialkoxyalkoxyl, C_2-C_6 haloalkoxyhaloalkoxyl, C_3-C_{10} alkoxyalkoxyalkyl, C_2-C_6 alkenyl, C_2-C_6 haloalkenyl, C_2-C_6 alkenyloxy, C_2-C_6 haloalkenyloxy, C_3-C_8 alkenyloxyalkoxyl, C_3-C_8 haloalkenyloxyalkoxyl, C_2-C_6 alkynyl, C_2-C_6 haloalkynyl, C_2-C_6 alkynyloxy, C_2-C_6

haloalkynyloxy, C_3-C_8 alkynyloxyalkoxyl, C_3-C_8 haloalkynyloxyalkoxyl, C_3-C_{12} acylaminoalkoxy, C_2-C_8 alkoxyiminoalkyl, C_2-C_8 haloalkoxyiminoalkyl, C_3-C_8 alkenyloxyiminoalkyl, C_3-C_8 haloalkenyloxyiminoalkyl, C_3-C_8 alkynyloxyiminoalkyl, C_3-C_8 haloalkynyloxyiminoalkyl, C_5-C_{10} alkoxyalkynyloxyl, C_6-C_{12} cycloalkylideneiminooxyalkyl, C_6-C_{12} dialkylideneiminooxyalkyl, $-S(O)_mR_1$, $-OS(O)_tR_1$, $-SO_2NR_2R_3$, $-CO_2R_4$, $-COR_5$, $-CONR_6R_7$, $-CSNR_8R_9$, $-NR_{10}R_{11}$, $-NR_{12}COR_{13}$, $-NR_{14}CO_2R_{15}$, $-NR_{16}CONR_{17}R_{18}$, $-PO(R_{19})_2$, $-Q$, $-ZQ_1$, $-(CR_{20}R_{21})_pQ_2$, $-Z(CR_{22}R_{23})_pQ_3$, $-(CR_{24}R_{25})_pZQ_4$, $-(CR_{26}R_{27})_pZ(CR_{28}R_{29})_qQ_5$, $-(CR_{30}R_{31})_pZ(CR_{32}R_{33})_qZ_1Q_6$, $-Z_2(CR_{34}R_{35})_p(C=Y)T$, $-Z_3(CR_{36}R_{37})_v(CR_{38}R_{39}=CR_{40}R_{41})(C=Y)T$;

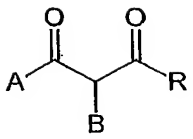
if several R_x groups are present, these can be the same or different;

- n = 1-9;

and of the relevant salts which have agronomical compatibility, as herbicides.

4. Use according to claim 3, for the control under pre-emergence and post-emergence of monocotyledon and dicotyledon weeds.

5. Use of derivatives of 1,3-diones having general formula (I):



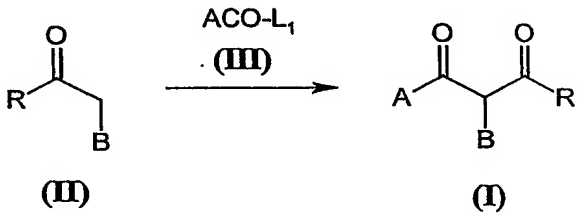
(I)

wherein:

- A, B and R have the meanings defined according to claim 3, and of the relevant salts pharmaceutically acceptable as medicaments.

6. A process for the preparation of the compounds having general formula (I) according to any of the claims 1 to 3, characterized in that it includes a reaction of a carbonyl compound having general formula (II) with a compound having general formula (III), according to the reaction scheme 1

Scheme 1:



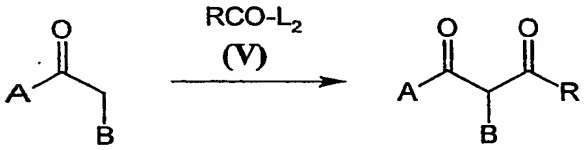
wherein

- A, B and R have the meanings previously defined;
- L_1 represents a suitable leaving group such as, for example, a halogen atom, a CN group, an imidazol-1-yl group, an R_LO- group wherein R_L represents a C_1-C_4 alkyl group or a phenyl group optionally

substituted, or it represents an $R_{L1}COO-$ group wherein R_{L1} represents a hydrogen atom, a C_1-C_4 alkyl or haloalkyl group, a phenyl group optionally substituted or an A group.

7. The process for the preparation of the compounds having general formula (I) according to any of the claims 1 to 3, characterized in that it includes a reaction of a carbonyl compound having general formula (IV) with a compound having general formula (V), according to the reaction scheme 2

Scheme 2:



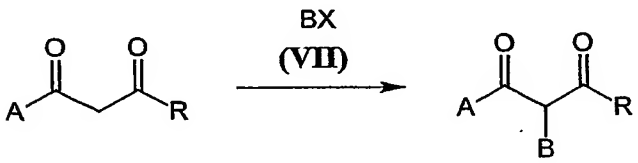
(IV) (I)

wherein

- A, B and R have the meanings previously defined;
- L_2 represents a suitable leaving group such as, for example, a halogen atom, a CN group, an imidazol-1-yl group, an R_LO- group wherein R_L represents a C_1-C_4 alkyl group or a phenyl group optionally substituted, or it represents an $R_{L1}COO-$ group wherein R_{L1} represents a hydrogen atom, a C_1-C_4 alkyl or haloalkyl group, a phenyl group optionally substituted or an R group.

8. The process for the preparation of the compounds having general formula (I) according to any of the claims 1 to 3, characterized in that it includes a reaction of a 1,3-dicarbonyl compound having general formula (VI) with a compound having general formula (VII), according to the reaction scheme 3

Scheme 3:



(VI) (I)

wherein

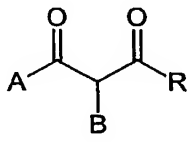
- A, B and R have the meanings previously defined;
- X represents a halogen atom, an $R_{L2}SO_2O-$ group, wherein R_{L2} represents a C_1-C_4 alkyl or haloalkyl group, a phenyl group optionally substituted by C_1-C_4 alkyl groups, or it represents an $R_{L3}SO_2-$ group, wherein R_{L3} represents a C_1-C_4 alkyl or haloalkyl group.

9. The process according to any of the claims from 6 to 8, characterized in that the reaction is carried out in the presence of one or more inert organic solvents and in the presence of an organic or

inorganic base, at a temperature ranging from -80°C to the boiling temperature of the reaction mix.

10. The process according to claim 9, characterized in that the reaction is carried out in two separate phases.

11. A method for the control of weeds in agricultural crops, by the application of compounds having general formula (I):



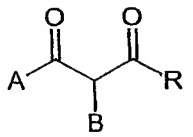
(I)

wherein:

- A, B and R have the meanings according to claim 3.

12. The method according to claim 11, characterized in that the quantity of compound having formula (I) to be applied ranges from 1 g to 4,000 g per hectare.

13. Herbicidal compositions containing, as active principle, one or more compounds having general formula (I):



(I)

wherein:

- A, B and R have the meanings according to claim 3, possibly also as a blend of tautomers and/or isomers.

14. The herbicidal compositions according to claim 13, including other active principles compatible with the compounds having general formula (I), such as other herbicides, fungicides, insecticides, acaricides, fertilizers, etc..

15. The herbicidal compositions according to claim 14, characterized in that the additional herbicides are selected from:
acetochlor, acifluorfen, aclonifen, AKH-7088, alachlor, alloxydim, ametryn, amicarbazone, amidosulfuron, amitrole, anilofos, asulam, atrazine, azafenidin, azimsulfuron, aziprotryne, BAS 670 H, BAY MKH 6561, beflubutamid, benazolin, benfluralin, benfuresate, bensulfuron, bensulide, bentazone, benzfendizone, benzobicyclon, benzofenap, benzthiazuron, bifenox, bilanafos, bispyribac-sodium, bromacil, bromobutide, bromofenoxim, bromoxynil,

butachlor, butafenacil, butamifos, butenachlor, butralin, butroxydim, butylate, cafenstrole, carbetamide, carfentrazone-ethyl, chlomethoxyfen, chloramben, chlorbromuron, chlorbufam, chlorflurenol, chloridazon, chlorimuron, chlornitrofen, chlorotoluron, chloroxuron, chlorpropham, chlorsulfuron, chlorthal, chlorthiamid, cinidon ethyl, cinmethylin, cinosulfuron, clethodim, clodinafop, clomazone, clomeprop, clopyralid, cloransulam-methyl, cumyluron (JC-940), cyanazine, cycloate, cyclosulfamuron, cycloxydim, cyhalofop-butyl, 2,4-D, 2,4-DB, daimuron, dalapon, desmedipham, desmetryn, dicamba, dichlobenil, dichlorprop, dichlorprop-P, diclofop, diclosulam, diethatyl, difenoxuron, difenzoquat, diflufenican, diflufenzopyr, dimefuron, dimepiperate, dimethachlor, dimethametryn, dimethenamid, dinitramine, dinosseb, dinoseb acetate, dinoterb, diphenamid, dipropetryn, diquat, dithiopyr, 1-diuron, eglinazine, endothal, EPTC, espropcarb, ethalfluralin, ethametsulfuron-methyl, ethidimuron, ethiozin (SMY 1500), ethofumesate, ethoxyfen-ethyl (HC-252), ethoxysulfuron, etobenzanid (HW 52), fenoxaprop, fenoxaprop-P, fentrazamide, fenuron, flamprop, flamprop-M, flazasulfuron, florasulam, fluazifop,

fluazifop-P, fluazolate (JV 485), flucarbazone-sodium, fluchloralin, flufenacet, flufenpyr ethyl, flumetsulam, flumiclorac-pentyl, flumioxazin, flumipropin, fluometuron, fluoroglycofen, fluoronitrofen, flupoxam, fluproanate, flupyrsulfuron, flurenol, fluridone, flurochloridone, fluroxypyr, flurtamone, fluthiacet-methyl, fomesafen, foramsulfuron, fosamine, furyloxyfen, glufosinate, glyphosate, halosulfuron-methyl, haloxyfop, haloxyfop-P-methyl, hexazinone, imazamethabenz, imazamox, imazapic, imazapyr, imazaquin, imazethapyr, imazosulfuron, indanofan, iodosulfuron, ioxynil, isopropalin, isoproturon, isouron, isoxaben, isoxachlortole, isoxaflutole, isoxapyrifop, KPP-421, lactofen, lenacil, linuron, LS830556, MCPA, MCPA-thioethyl, MCPB, mecoprop, mecoprop-P, mefenacet, mesosulfuron, mesotrione, metamitron, metazachlor, methabenzthiazuron, methazole, methoprotryne, methyldymron, metobenzuron, metobromuron, metolachlor, S-metolachlor, metosulam, metoxuron, metribuzin, metsulfuron, molinate, monalide, monolinuron, naproanilide, napropamide, naptalam, NC-330, neburon, nicosulfuron, nipyraclofen, norflurazon, orbencarb, oryzalin, oxadiargyl, oxadiazon, oxasulfuron, oxaziclomefone, oxyfluorfen,

paraquat, pebulate, pendimethalin, penoxsulam, pentanochlor, pentoxazone, pethoxamid,, phenmedipham, picloram, picolinafen, piperophos, pretilachlor, primisulfuron, prodiamine, profluazol, proglinazine, prometon, prometryne, propachlor, propanil, propaquizafop, propazine, propham, propisochlor, propyzamide, prosulfocarb, prosulfuron, pyraclonil, pyraflufen-ethyl, pyrazogyl (HAS-961), pyrazolynate, pyrazosulfuron, pyrazoxyfen, pyribenzoxim, pyributicarb, pyridafol, pyridate, pyriftalid, pyriminobac-methyl, pyrithiobac-sodium, quinclorac, quinmerac, quizalofop, quizalofop-P, rimsulfuron, sethoxydim, siduron, simazine, simetryn, sulcotrione, sulfentrazone, sulfometuron-methyl, sulfosulfuron, 2,3,6-TBA, TCA-sodium, tebutam, tebuthiuron, tepraloxydim, terbacil, terbumeton, terbuthyl-azine, terbutryn, thenylchlor, thiazafluron, thiazopyr, thidiazimin, thifensulfuron-methyl, thiobencarb, tiocarbazil, tioclorim, tralkoxydim, tri-allate, triasulfuron, triaziflam, tribenuron, triclopyr, trietazine, trifloxysulfuron, trifluralin, triflusulfuron-methyl, tritosulfuron, UBI-C4874, vernolate.

16. The compositions according to any of the claims 13-15, characterized in that the concentration of active substance ranges from 1 to 90%.